FIG. 1A

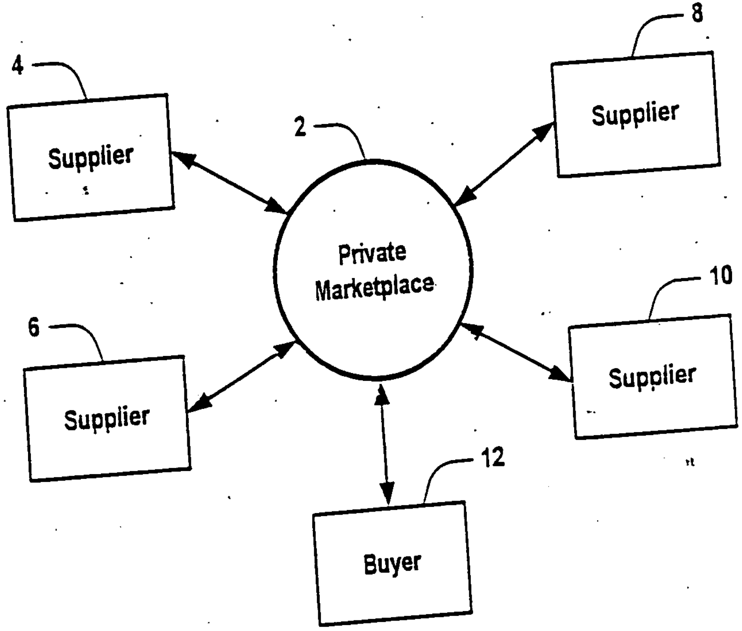

4
Supplier
2
Private Marketplace
8
Supplier
6
Supplier
10
Supplier
12
Buyer

FIG. 1B

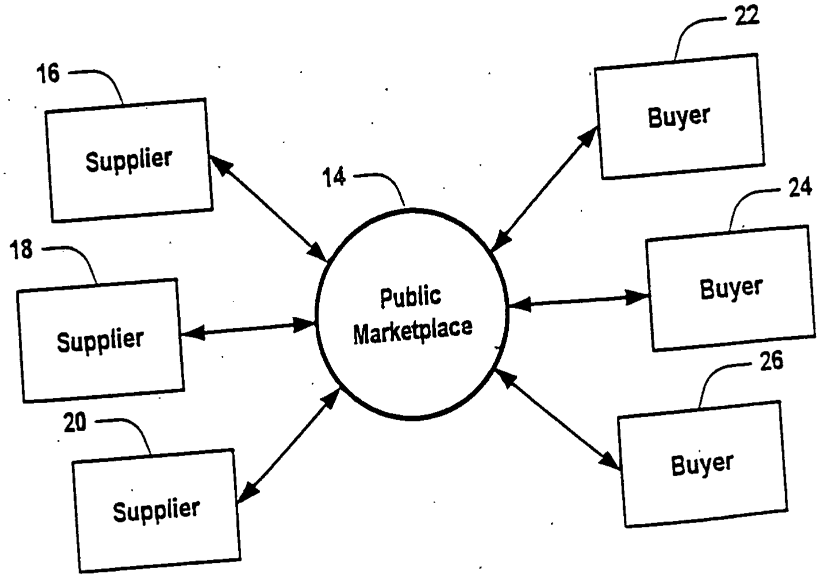

16
Supplier
14
Public Marketplace
22
Buyer
18
Supplier
24
Buyer
20
Supplier
26
Buyer

FIG. 1C

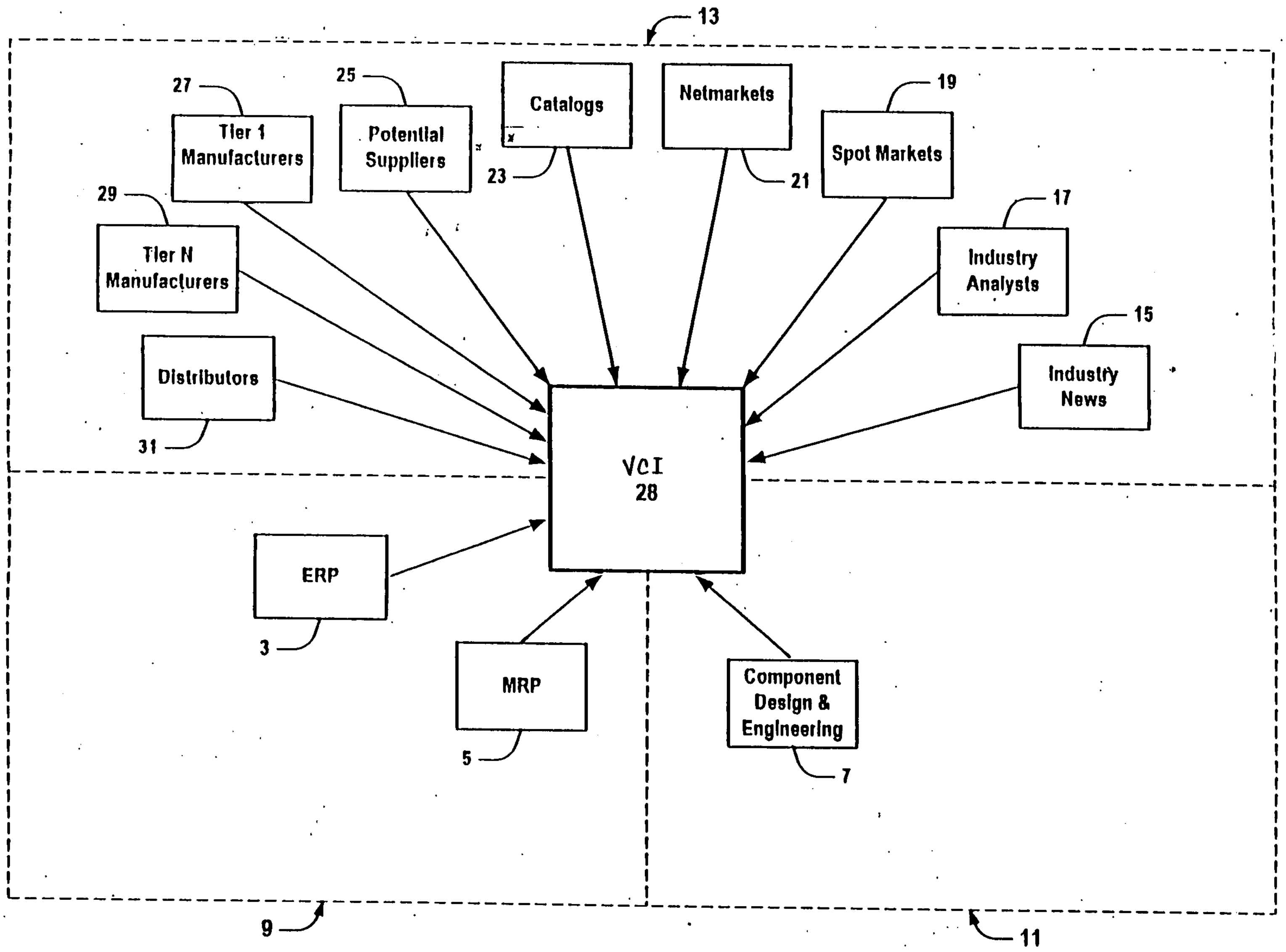

13
Tier 1 Manufacturers
27
Potential Suppliers
25
Catalogs
23
Netmarkets
21
Spot Markets
19
Tier N Manufacturers
29
Industry Analysts
17
Industry News
15
Distributors
31
VCI 28
ERP
3
MRP
5
Component Design & Engineering
7
9
11

FIG. 2

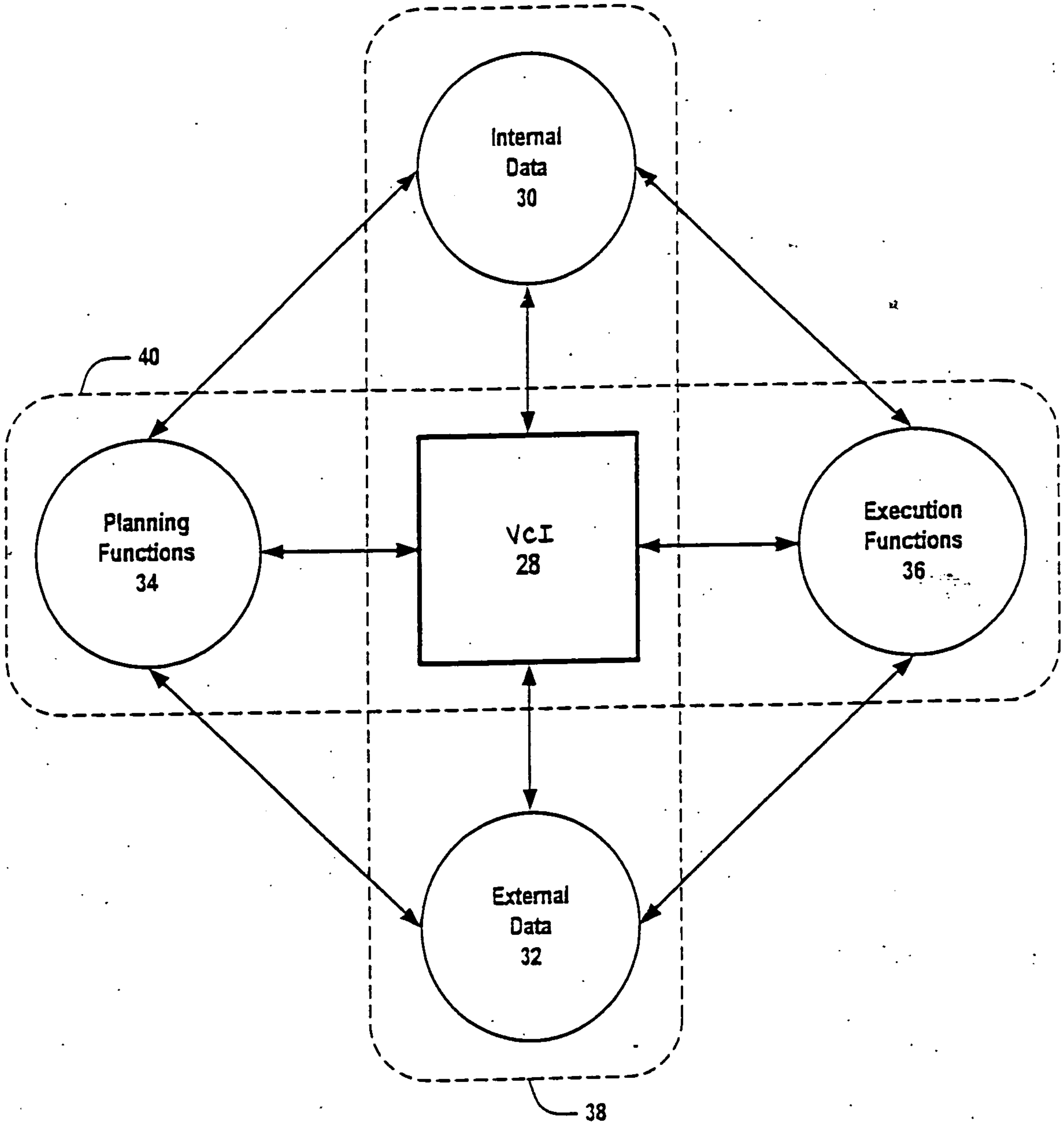

Internal Data 30
40
Planning Functions 34
VcI 28
Execution Functions 36
External Data 32
38

FIG. 3A

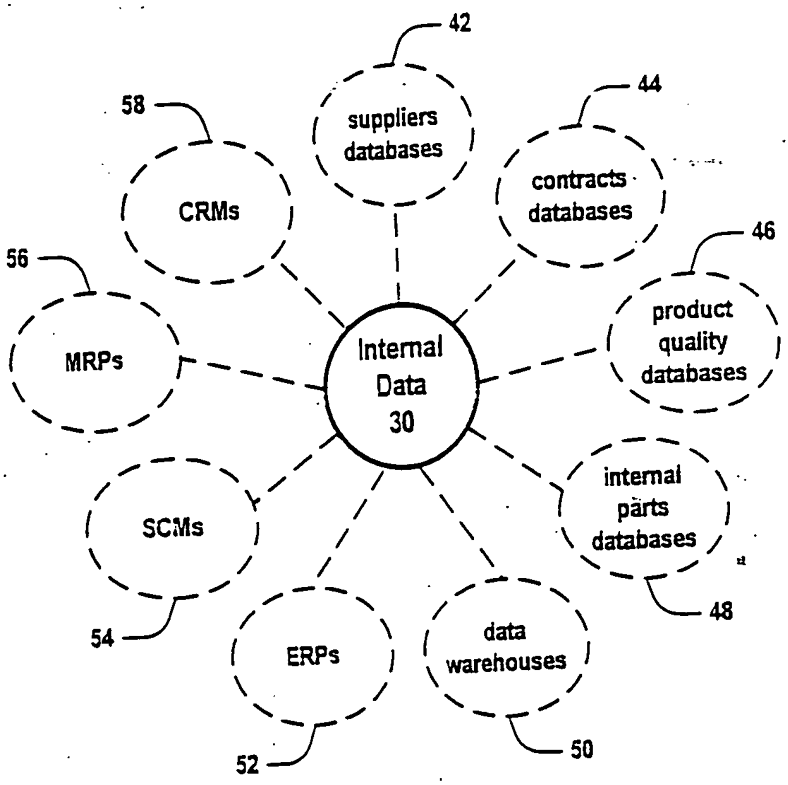

42
suppliers databases
44
contracts databases
46
product quality databases
48
internal parts databases
50
data warehouses
52
ERPs
54
SCMs
56
MRPs
58
CRMs
Internal Data 30

FIG. 3B

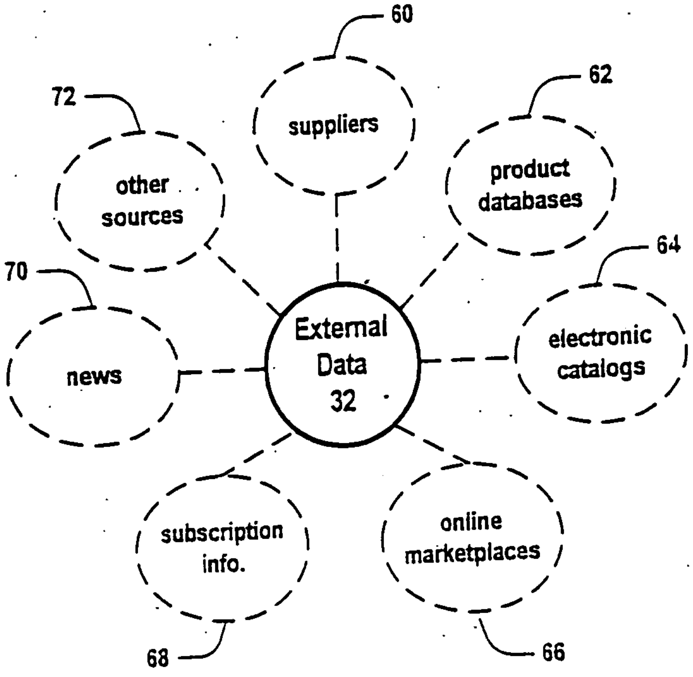

60
suppliers
62
product databases
64
electronic catalogs
66
online marketplaces
68
subscription info.
70
news
72
other sources
External Data 32

FIG. 4

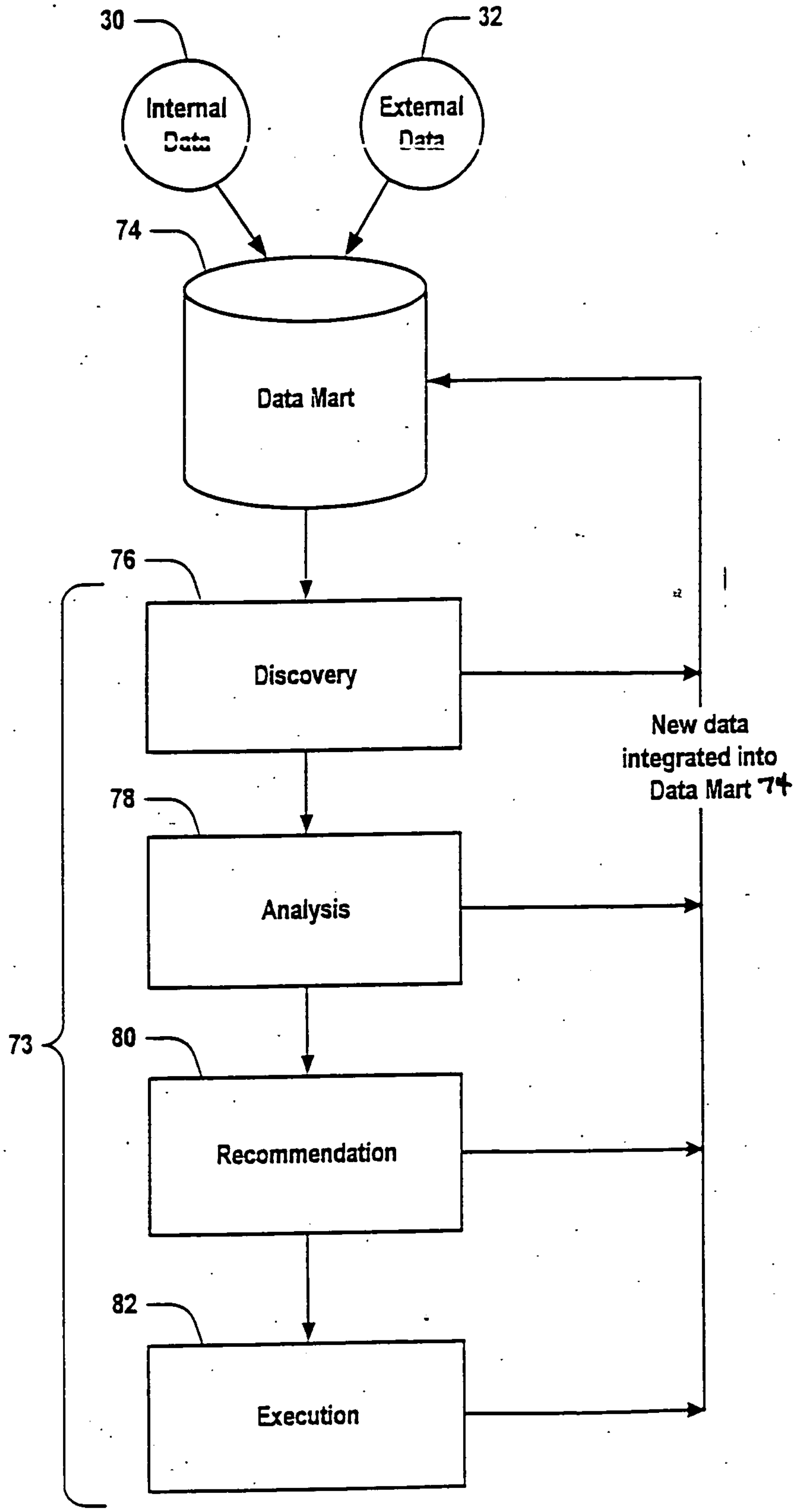

30
32
Internal Data
External Data
74
Data Mart
76
Discovery
78
Analysis
80
Recommendation
82
Execution
73
New data integrated into Data Mart 74

FIG. 5

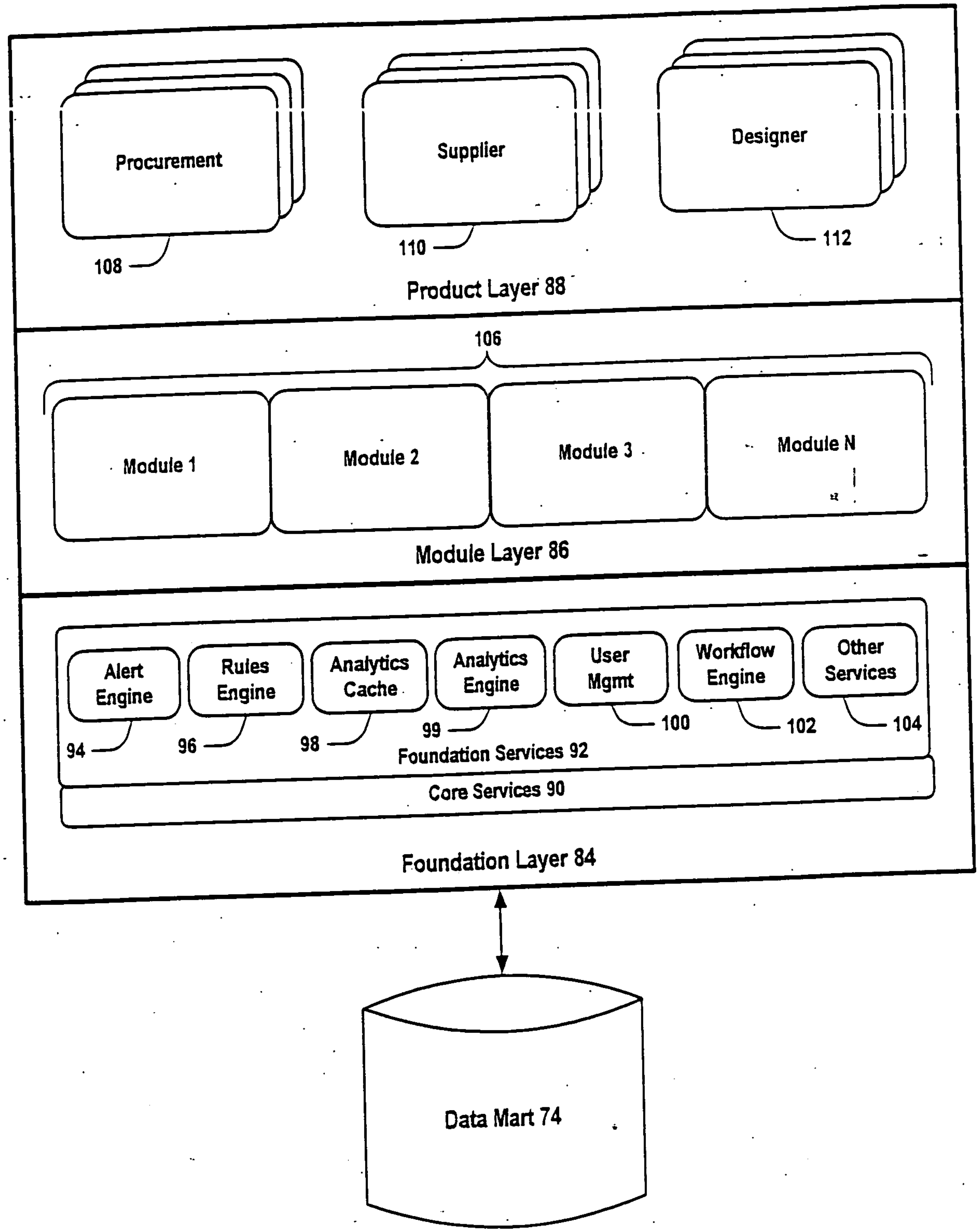

Procurement
108
Supplier
110
Designer
112
Product Layer 88
106
Module 1
Module 2
Module 3
Module N
Module Layer 86
Alert Engine
Rules Engine
Analytics Cache
Analytics Engine
User Mgmt
Workflow Engine
Other Services
94
96
98
99
100
102
104
Foundation Services 92
Core Services 90
Foundation Layer 84
Data Mart 74

FIG. 6

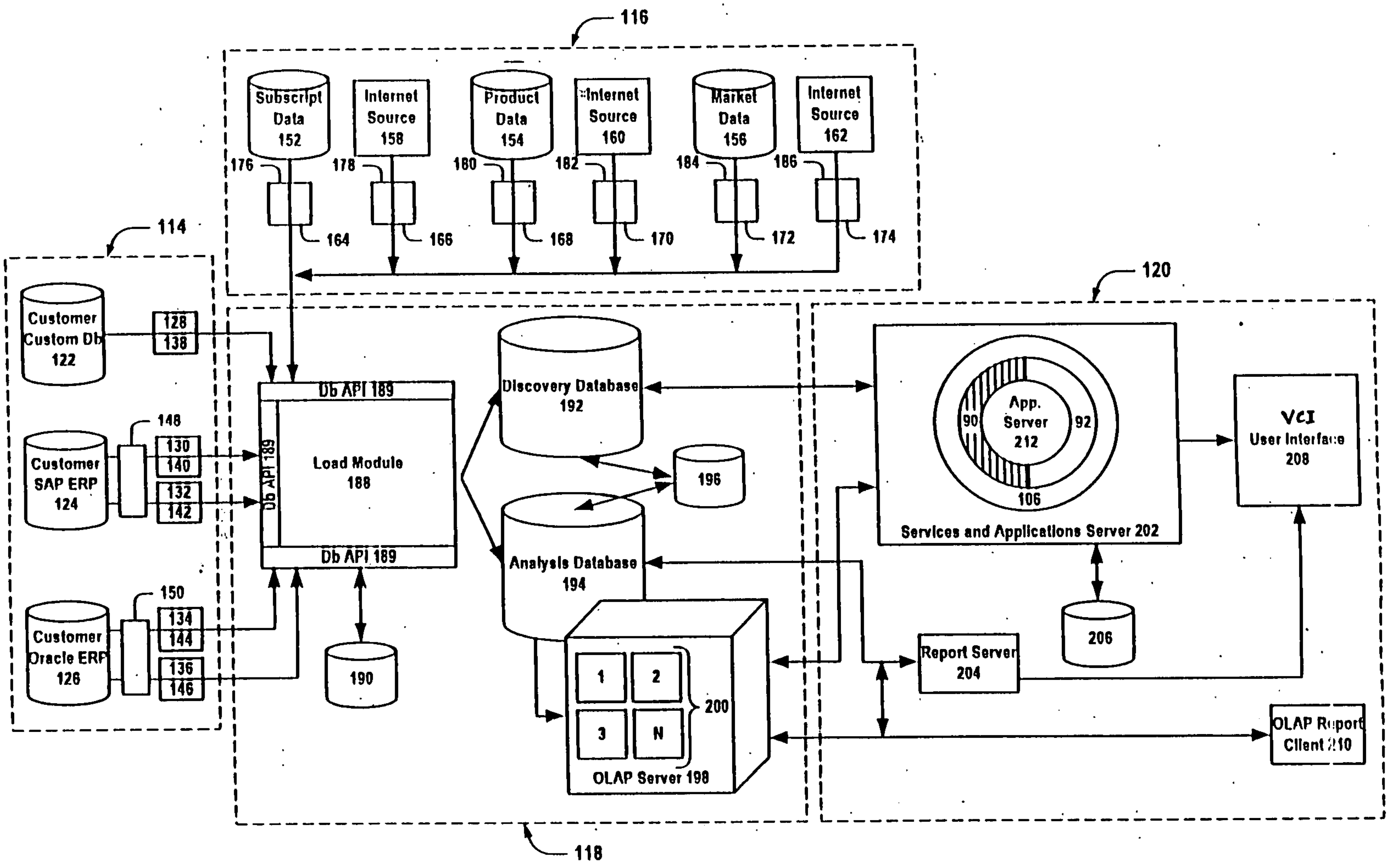
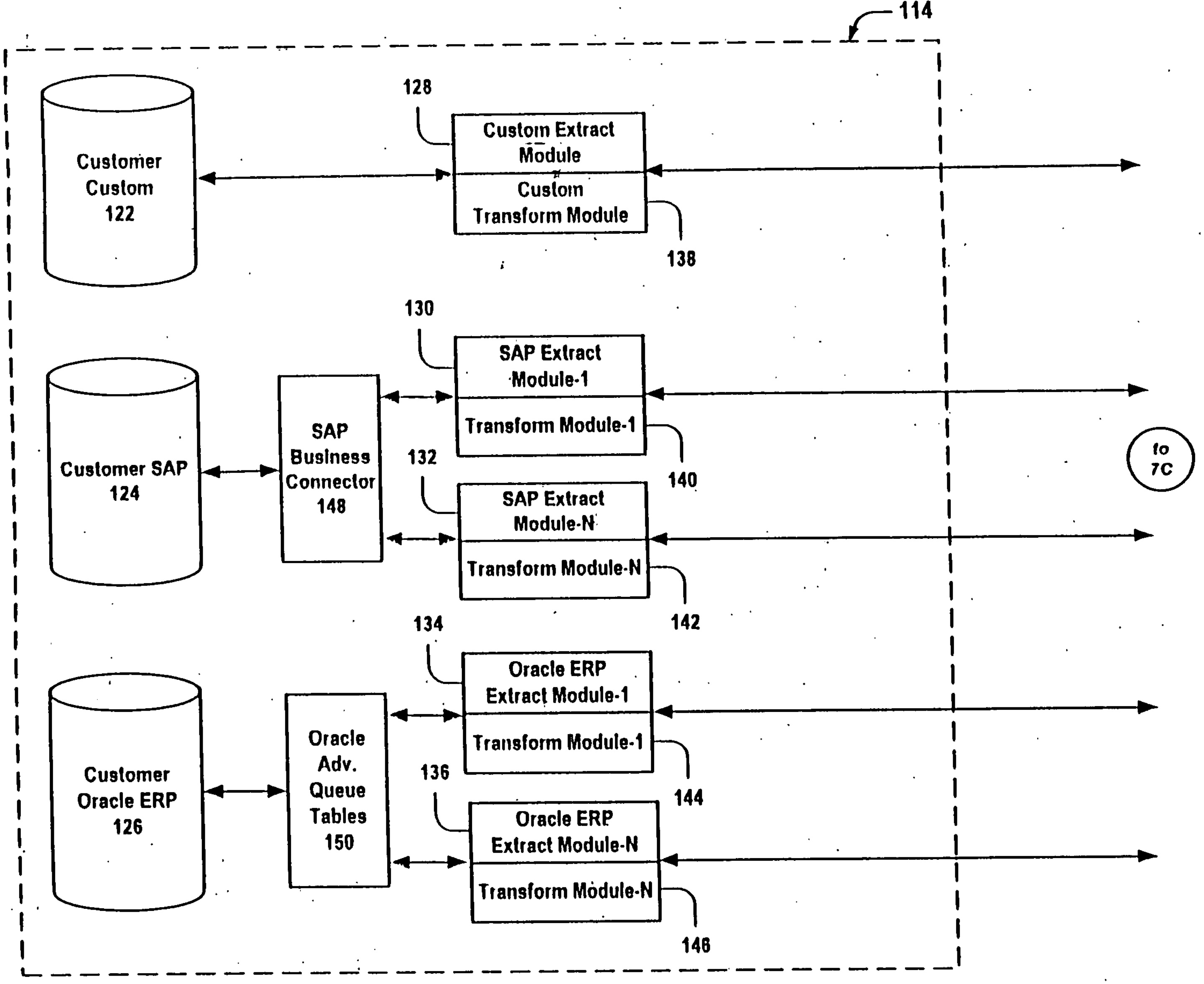

116
Subscript Data 152
Internet Source 158
Product Data 154
Internet Source 160
Market Data 156
Internet Source 162
176
178
180
182
184
186
164
166
168
170
172
174
114
Customer Custom Db 122
128
138
148
Customer SAP ERP 124
130
140
132
142
150
Customer Oracle ERP 126
134
144
136
146
Db API 189
Load Module 188
Db API 189
Db API 189
190
Discovery Database 192
196
Analysis Database 194
1
2
3
N
200
OLAP Server 198
118
120
App. Server 212
90
92
106
Services and Applications Server 202
VCI User Interface 208
206
Report Server 204
OLAP Report Client 210

FIG. 7A


114
Customer Custom 122
128
Custom Extract Module
Custom Transform Module
138
Customer SAP 124
SAP Business Connector 148
130
SAP Extract Module-1
Transform Module-1
140
132
SAP Extract Module-N
Transform Module-N
142
to 7C
Customer Oracle ERP 126
Oracle Adv. Queue Tables 150
134
Oracle ERP Extract Module-1
Transform Module-1
144
136
Oracle ERP Extract Module-N
Transform Module-N
146

PMT-003
Sheet 9 of 11

FIG. 7B

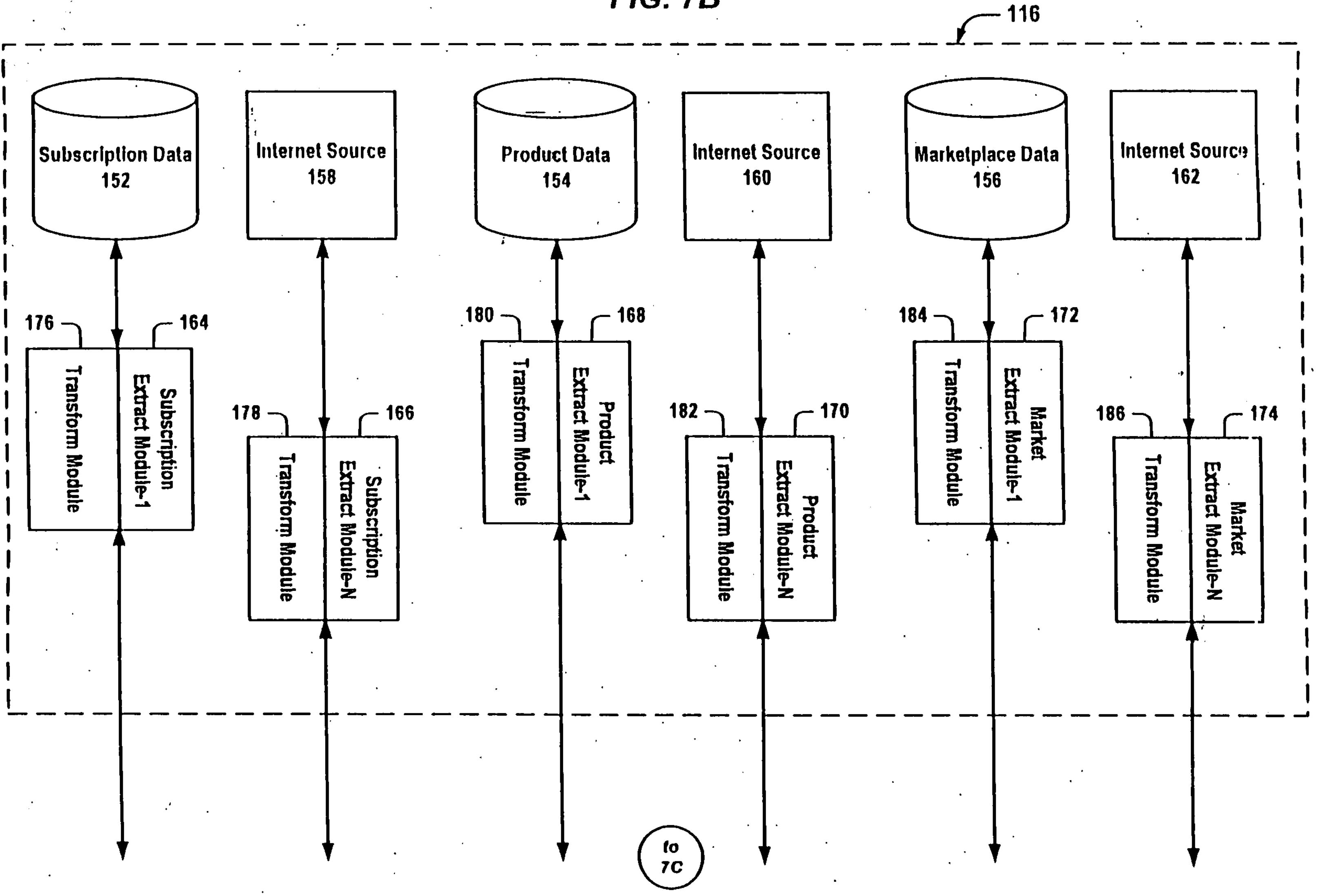


FIG. 7C

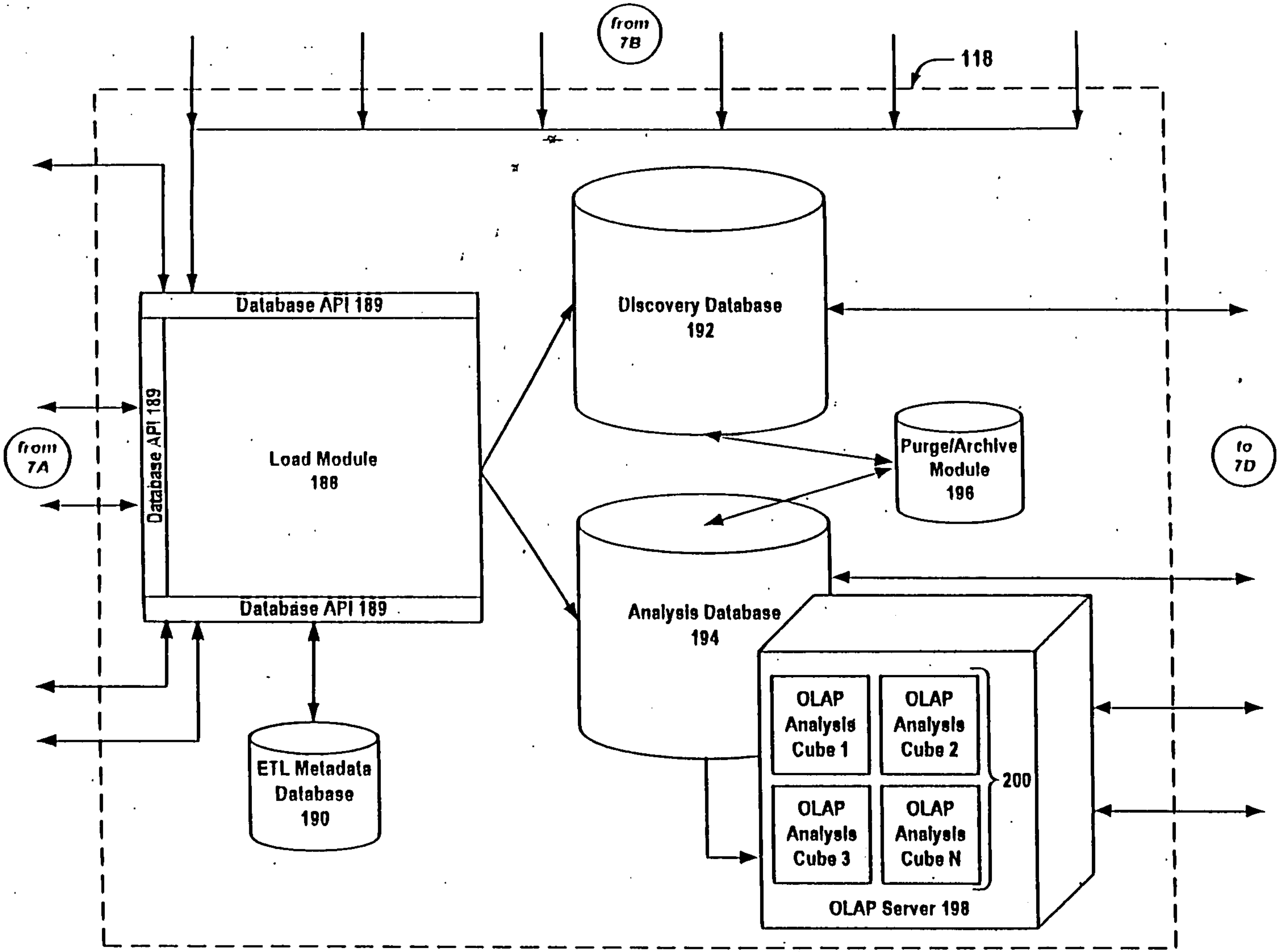
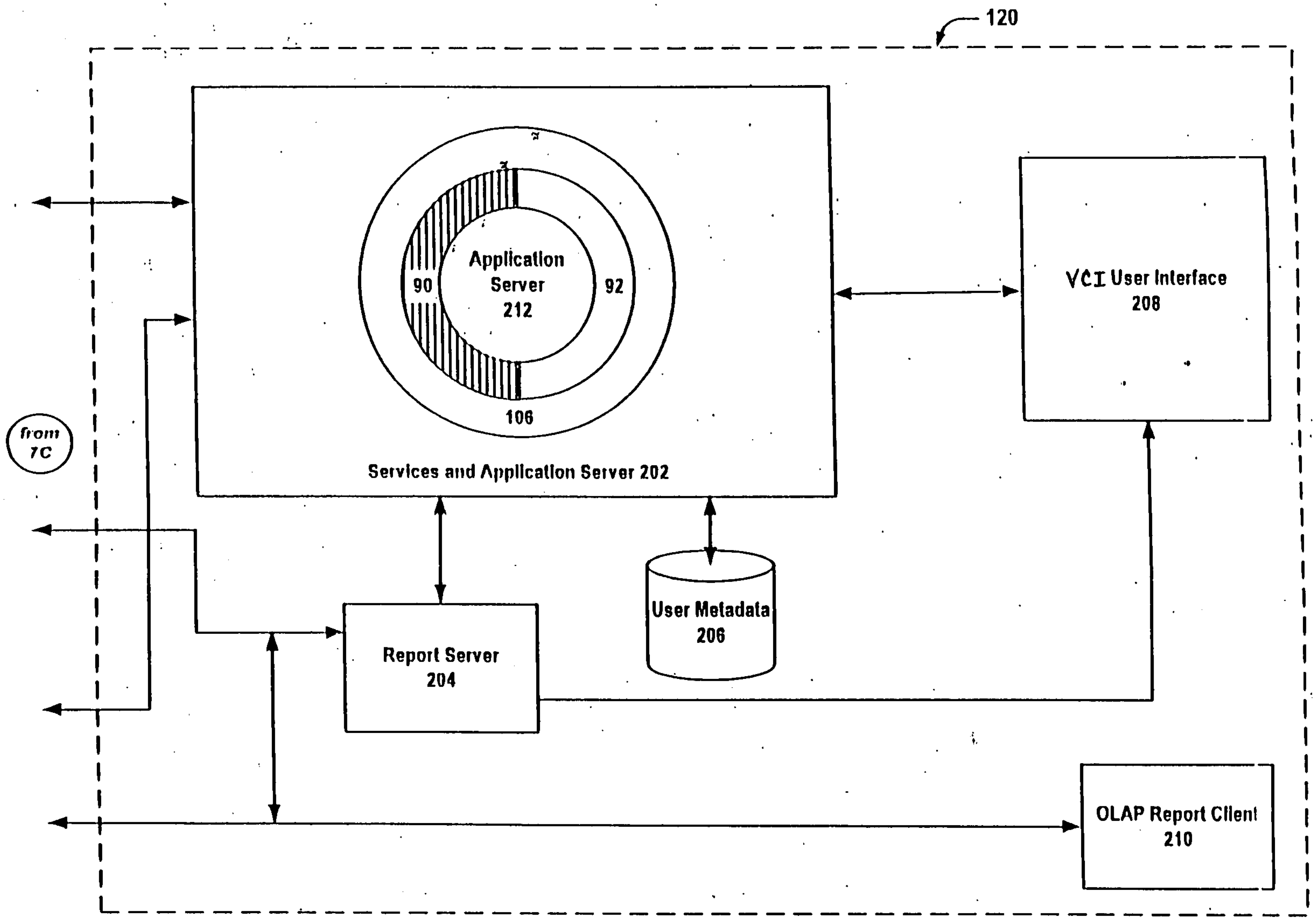

from 7B
118
from 7A
Database API 189
Load Module 188
Database API 189
Database API 189
ETL Metadata Database 190
Discovery Database 192
Purge/Archive Module 196
Analysis Database 194
OLAP Analysis Cube 1
OLAP Analysis Cube 2
OLAP Analysis Cube 3
OLAP Analysis Cube N
200
OLAP Server 198
to 7D

FIG. 7D


120
Application Server 212
90
92
106
Services and Application Server 202
VCI User Interface 208
User Metadata 206
Report Server 204
OLAP Report Client 210
from 7C